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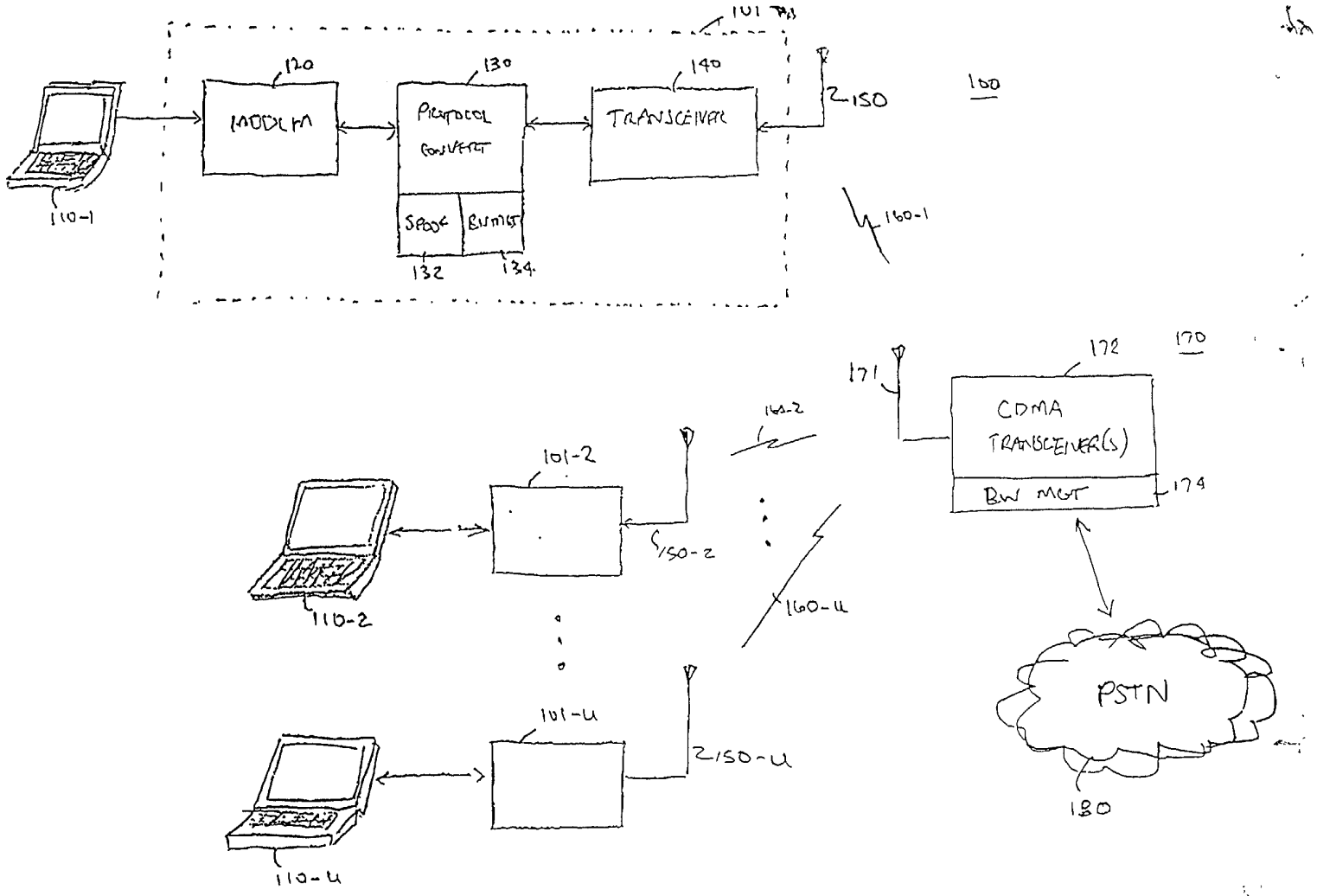
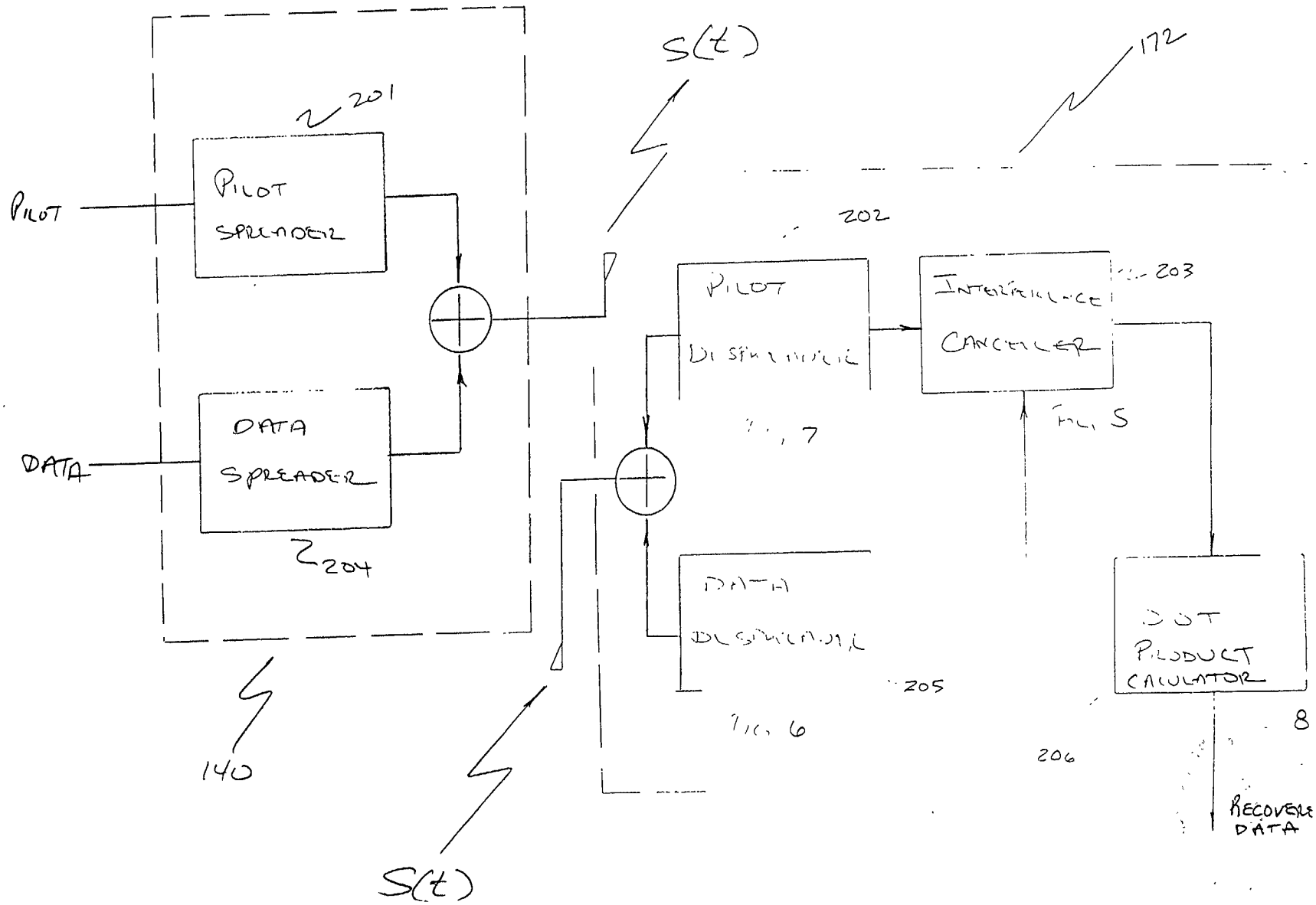


FIG. 1

T0270 08227660

Fig. 2



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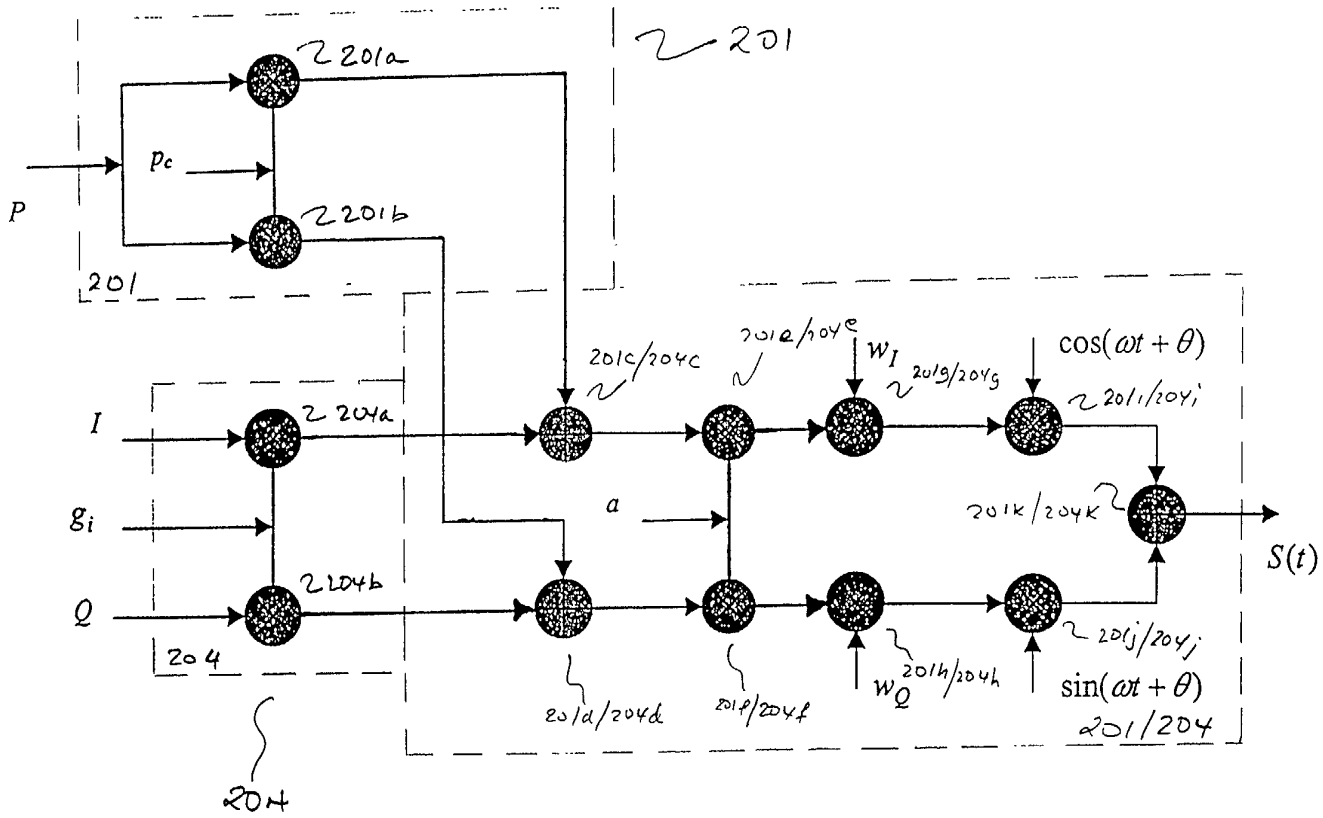

Fig. 3

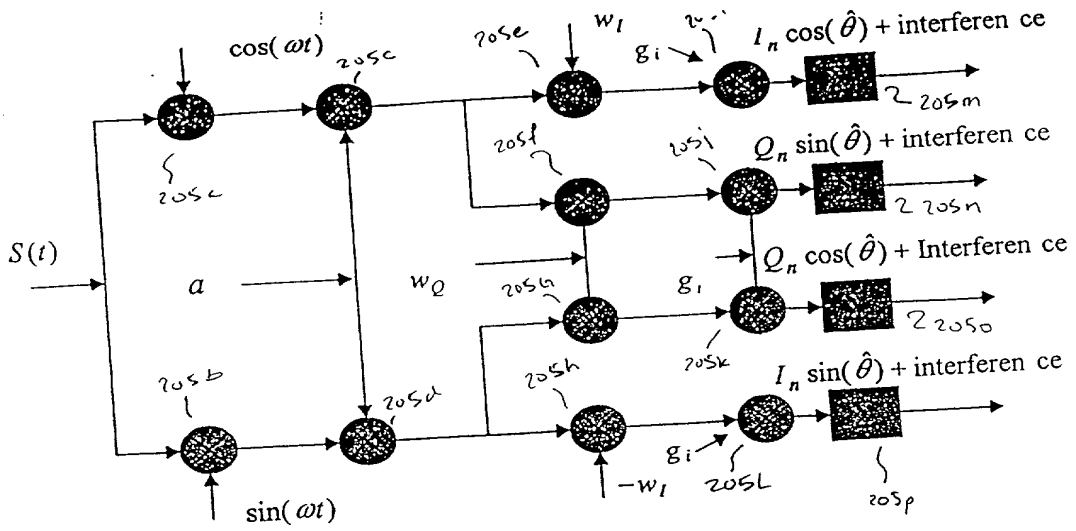
cos(ωt)
205c
205e
w_I
g_i
$I_n \cos(\hat{\theta})$ + interferen ce
205m
205f
205i
$Q_n \sin(\hat{\theta})$ + interferen ce
205n
205c
S(t)
a
w_Q
205g
g_i
$Q_n \cos(\hat{\theta})$ + Interferen ce
205o
205k
205b
205d
205h
$I_n \sin(\hat{\theta})$ + interferen ce
g_i
$-w_I$
205L
205p
sin(ωt)

Fig. 4

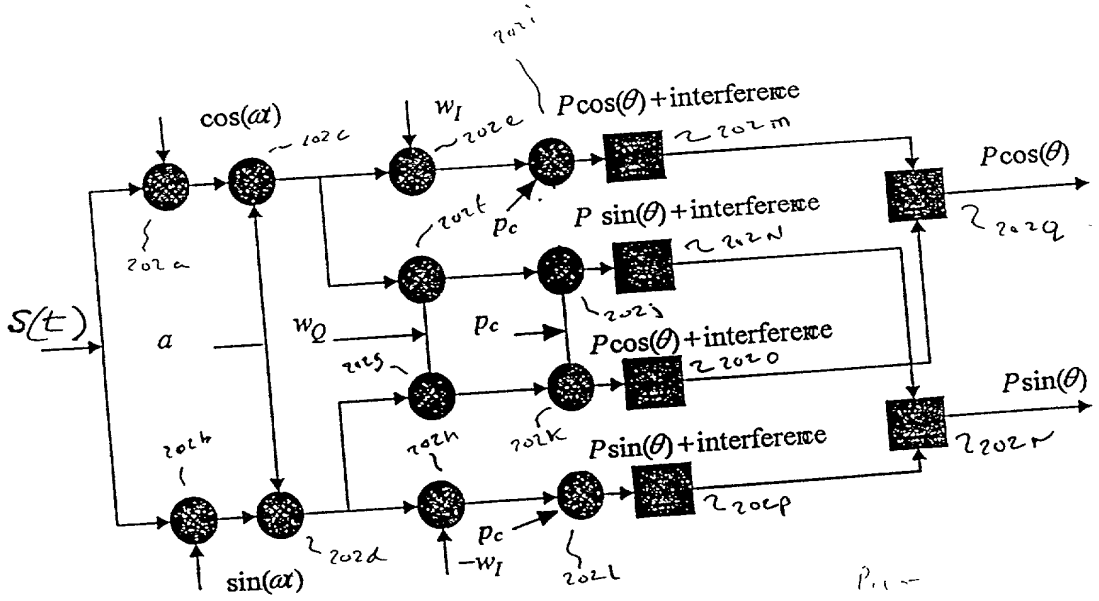
202i
cos(ωt)
202c
w_I
202e
Pcos(θ)+interference
202m
Pcos(θ)
202a
202f
p_c
P sin(θ)+interference
202N
202q
S(t)
a
w_Q
p_c
202j
Pcos(θ)+interference
202g
202o
Psin(θ)
202b
202h
202K
Psin(θ)+interference
202r
202d
p_c
$-w_I$
202l
202p
sin(ωt)

Fig. 5

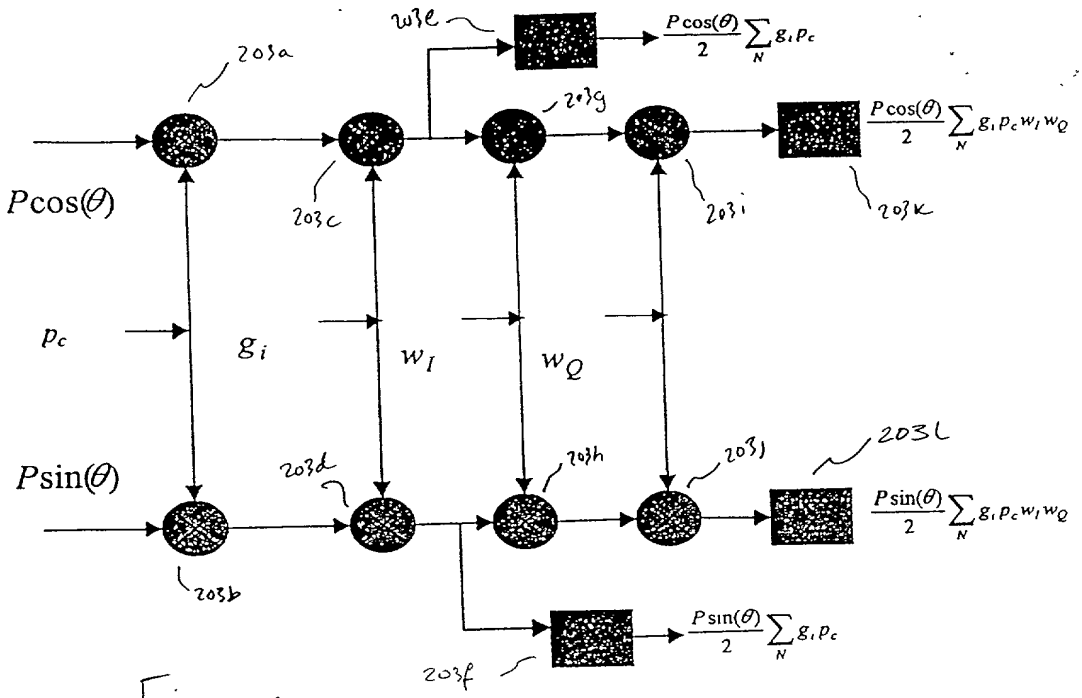
203a
203e
$\frac{P\cos(\theta)}{2}\sum_N g_i p_c$
203g
$\frac{P\cos(\theta)}{2}\sum_N g_i p_c w_I w_Q$
$P\cos(\theta)$
203c
203i
203k
p_c
g_i
w_I
w_Q
$P\sin(\theta)$
203d
203h
203j
203L
$\frac{P\sin(\theta)}{2}\sum_N g_i p_c w_I w_Q$
203b
$\frac{P\sin(\theta)}{2}\sum_N g_i p_c$
203f

Fig. 6

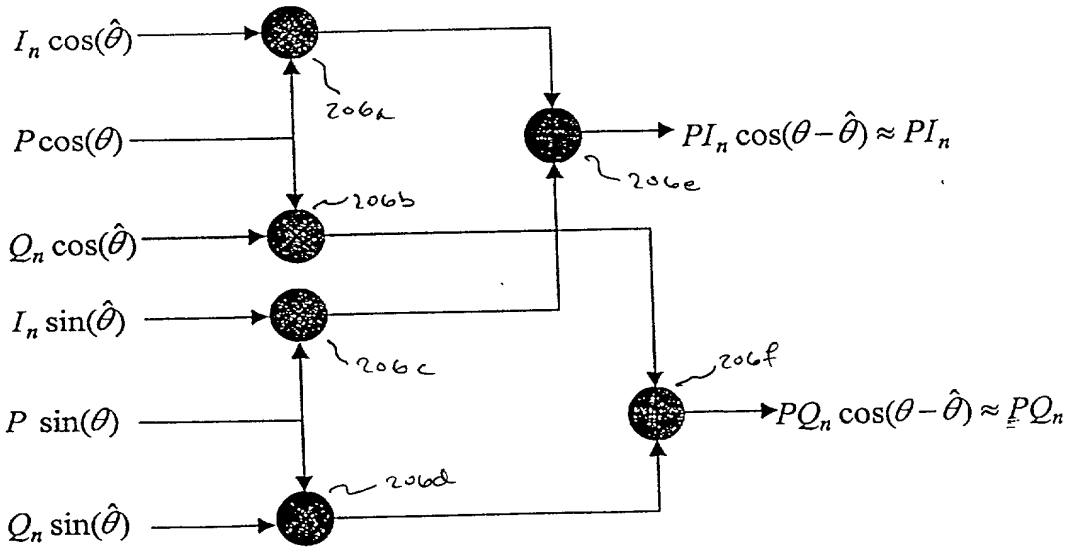
$I_n\cos(\hat{\theta})$
206a
$P\cos(\theta)$
$PI_n\cos(\theta-\hat{\theta})\approx PI_n$
206e
206b
$Q_n\cos(\hat{\theta})$
$I_n\sin(\hat{\theta})$
206c
206f
$P\sin(\theta)$
$PQ_n\cos(\theta-\hat{\theta})\approx PQ_n$
206d
$Q_n\sin(\hat{\theta})$

Fig. 7

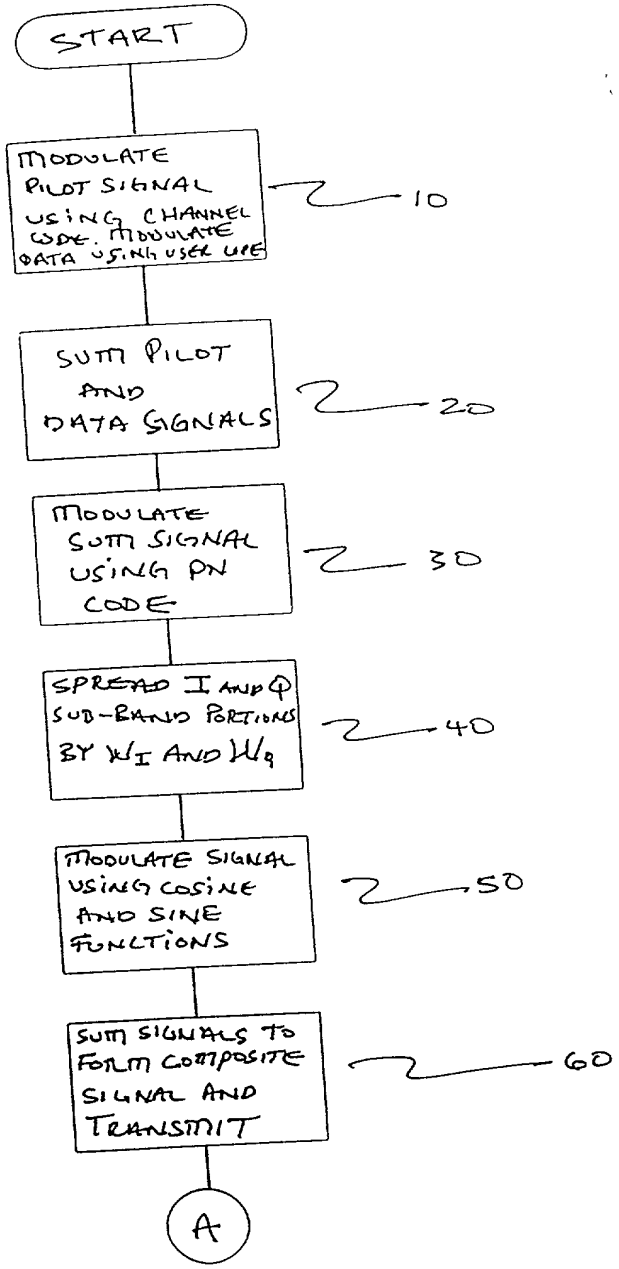
START
MODULATE PILOT SIGNAL USING CHANNEL CODE. MODULATE DATA USING USER CODE
10
SUM PILOT AND DATA SIGNALS
20
MODULATE SUM SIGNAL USING PN CODE
30
SPREAD I AND Q SUB-BAND PORTIONS BY W_I AND W_Q
40
MODULATE SIGNAL USING COSINE AND SINE FUNCTIONS
50
SUM SIGNALS TO FORM COMPOSITE SIGNAL AND TRANSMIT
60
A

FIG. 8(A)

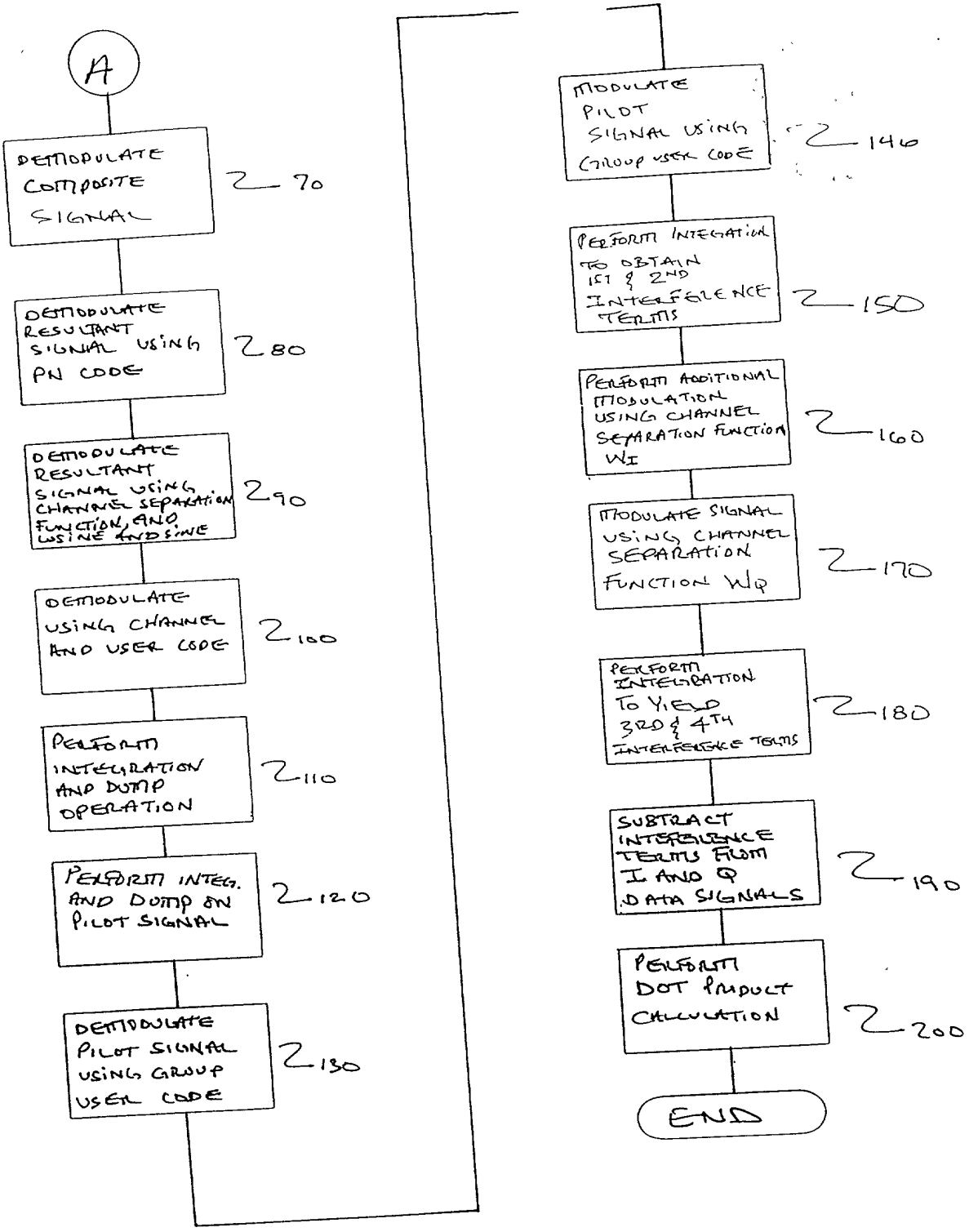
A
DEMODULATE COMPOSITE SIGNAL
70
DEMODULATE RESULTANT SIGNAL USING PN CODE
80
DEMODULATE RESULTANT SIGNAL USING CHANNEL SEPARATION FUNCTION, AND USING AND SINE
90
DEMODULATE USING CHANNEL AND USER CODE
100
PERFORM INTEGRATION AND DUMP OPERATION
110
PERFORM INTEG. AND DUMP ON PILOT SIGNAL
120
DEMODULATE PILOT SIGNAL USING GROUP USER CODE
130
MODULATE PILOT SIGNAL USING GROUP USER CODE
140
PERFORM INTEGRATION TO OBTAIN 1ST & 2ND INTERFERENCE TERMS
150
PERFORM ADDITIONAL MODULATION USING CHANNEL SEPARATION FUNCTION WI
160
MODULATE SIGNAL USING CHANNEL SEPARATION FUNCTION WQ
170
PERFORM INTEGRATION TO YIELD 3RD & 4TH INTERFERENCE TERMS
180
SUBTRACT INTERFERENCE TERMS FROM I AND Q DATA SIGNALS
190
PERFORM DOT PRODUCT CALCULATION
200
END

Fig. 8(b)